Appln No. 10/531733 Amdt. Dated: December 27, 2007

Response to Office Action of November 1, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

2

application:

**Listing of Claims:** 

1-13. (Cancelled)

14. (Currently Amended) A pen-based computing system for estimating the

orientation of a segment of digital ink, the system including a pen-based computing

pen to input digital ink, and a processor adapted to estimate the orientation of a

segment of digital ink by measuring the azimuth of the pen at a sampling rate

during writer generation of the segment of digital ink, determining an average a

mean azimuth for all of the sampled points, and estimating the orientation of the

segment of digital ink by subtracting the determined average mean azimuth from

each measured azimuth of each sampled point.

15. (Cancelled)

16. (Cancelled)

17. (Previously Presented) A system as claimed in claim 14, wherein the

processor is further adapted to use the estimated orientation of the segment of

digital ink in a digital ink line orientation normalization technique.

18. (Previously Presented) A system as claimed in claim 14, wherein the

processor is further adapted to use a single, fixed orientation estimation for a line of

digital ink.

19. (Previously Presented) A system as claimed in claim 14, wherein the

processor is further adapted to use an orientation estimation that varies across a line of

digital ink.

20. (Previously Presented) A system as claimed in claim 14, wherein the

processor is further adapted to normalize the estimated orientation to be within the

range of 0° to 360°.

Appln No. 10/531733

Amdt. Dated: December 27, 2007

Response to Office Action of November 1, 2007

3

21. (Previously Presented) A system as claimed in claim 14, wherein the segment

of digital ink is more than one character of digital ink.

22. (Previously Presented) A system as claimed in claim 14, wherein the segment

of digital ink is a line segment.

23. (Previously Presented) A system as claimed in claim 22, wherein the

processor is further adapted to perform line segmentation by measuring a change in

azimuth value.

24. (Previously Presented) A system as claimed in claim 14, wherein the

processor is further adapted to use a writer independent handwriting model to

estimate the orientation.

25. (Previously Presented) A system as claimed in claim 14, wherein the

processor is further adapted to use a writer dependent handwriting model trained

using sample digital ink input by the writer to estimate the orientation.

26. (Previously Presented) A system as claimed in claim 25, wherein the writer

dependent handwriting model is trained using sample digital ink input by the writer

using a consistent baseline.

27. (Previously Presented) A system as claimed in claim 25, wherein the writer

dependent handwriting model is trained using arbitrary sample digital ink input by

the writer.